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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/987,099	11/13/2001	Ho Joong Jeong	P-0287	6520
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FLESHNER & KIM, LLP P.O. BOX 221200 CHANTILLY, VA 20153			EXAMINER PEACHES, RANDY	
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			2686	

DATE MAILED: 11/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/987,099	Applicant(s) JEONG, HO JOONG	
	Examiner Randy Peaches	Art Unit 2686	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 August 2005.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11, 13-17 and 19-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11, 13-17 and 19-25 is/are rejected.
- 7) ☐ Claim(s) 17 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. *Claims 1-3, 5-11 and 13* are rejected under 35 U.S.C. 103(a) as being unpatentable over Helle (U.S. Patent Number 6,662,023 B1) in view of Backstrom (U.S. Patent Number 6,289,214 B1).

Regarding *claim 1*, Helle discloses a method for preventing an illegal use of a mobile communication terminal comprising:

- transmitting a control message, as taught in columns 3 and 5 lines 56-58 lines 25-52, respectively, which reads on claimed "short message service (SMS) message", mobile terminal when a user requests a phone-locking service wherein a general SMS message processing is performed is the SMS message has no ciphered string.

The Applicant's usage of the claimed language "ciphered string," is interpreted by the Examiner as merely an instruction written within the command string of an SMS message directing the said mobile terminal to lock or disable. Therefore, Helle continues to disclose in column 4 lines 51-65 wherein a message is sent to the said mobile device

requesting information regarding the location of the said mobile device, which contrast disabling or locking the said mobile device; and

- analyzing the received said control messages to set a phone-locking state for the mobile terminal. See column 5 lines 55-67 and column 6 lines 1-9.

However, Helle does not teach of disabling or turning off an LCD or display, hereinafter referenced "LCD", of the lost terminal.

In the same field of endeavor, Backstrom discloses in column 5 lines 35-53 of an ANSI-41 SMS deactivation, which reads on claimed "turning off", message being communicated to a remote mobile radiotelephone.

Therefore at the time of the invention it would have been obvious to a person of ordinary skilled in the art to modify Helle (U.S. Patent Number 6,662,023 B1) to include Backstrom (U.S. Patent Number 6,289,214 B1) in order to include a said keyword that instructs the said mobile terminal to be turned off to prevent illegal usage of the device.

Regarding *claim 2*, according to *claim 1*, Helle discloses in columns 5 and 6 lines 65-67 lines 1-5, wherein the SMS message includes a header and a keyword, which reads on claimed "ciphered string".

Regarding *claim 3*, according to *claim 1*, Helle further teaches in columns 5 and 6 lines 37-44 lines 65-67 lines 1-5 lines 38-42, respectively, wherein the phone-locking function setting comprises:

- checking whether a said keyword is contained in the SMS message; discriminating a type of the ciphered string; and
- setting the mobile terminal to a phone-locking state, if the said keyword is for a phone-locking state.

Regarding *claim 5*, Helle discloses a method for preventing an illegal use of a mobile communication terminal comprising the steps of:

- transmitting an SMS message to a mobile terminal from a control language module (64), which reads on claimed "exchange" (see FIGURE 2 and column 5 lines 55-60), when a phone-locking service is requested; and
- analyzing the received said control messages. See columns 5 and 6 lines 65-67 lines 1-5, respectively.

However, Helle does not teach of disabling or turning off an LCD power by the lost terminal.

In the same field of endeavor, Backstrom discloses in column 5 lines 35-53 of an ANSI-41 SMS deactivation, which reads on claimed "turning off", message being communicated to a remote mobile radiotelephone.

Therefore at the time of the invention it would have been obvious to a person of ordinary skilled in the art to modify Helle (U.S. Patent Number 6,662,023 B1) to include Backstrom (U.S. Patent Number 6,289,214 B1) in order to include a said keyword that instructs the said mobile terminal to be turned off to prevent illegal usage of the device.

Regarding *claim 6*, as the above combination of Helle (U.S. Patent Number 6,662,023 B1) and Backstrom (U.S. Patent Number 6,289,214 B1) are made, the combination according to *claim 5*, Helle discloses in columns 5 and 6 lines 65-67 lines 1-5, wherein the SMS message includes a header and a keyword, which reads on claimed "ciphered string".

Regarding *claim 7*, as the above combination of Helle (U.S. Patent Number 6,662,023 B1) and Backstrom (U.S. Patent Number 6,289,214 B1) are made, the combination according to *claim 5*, Helle discloses in columns 5 and 6 lines 37-44 lines 65-67 lines 1-5 lines 38-42, respectively:

- checking whether a said keyword exists in the SMS message;
- discriminating a type of the ciphered string contained in the SMS message; and

However, Helle does not teach of disabling or turning off an LCD power by the lost terminal.

Backstrom further discloses in column 5 lines 35-53 of an ANSI-41 SMS deactivation, which reads on claimed "turning off", message being communicated to a remote mobile radiotelephone.

Therefore at the time of the invention it would have been obvious to a person of ordinary skilled in the art to modify Helle (U.S. Patent Number 6,662,023 B1) to include Backstrom (U.S. Patent Number 6,289,214 B1) in order to disclose a feature that determines the said keyword contained in a said control message which instructs the said mobile terminal to deactivate after the transmitted said keyword is authenticated.

Regarding *claim 8*, Helle discloses a method for preventing an illegal use of a mobile communication terminal comprising the steps of:

- a first step in which when a user requests a phone-locking service, an SMS message is transmitted to the mobile terminal. See Helle column 3 lines 56-62; and

Helle does teach of a second step in which the received SMS message is analyzed to set a phone-locking function. See Helle columns 5 and 6 lines 65-67 lines 1-5 lines 37-43, respectively. However, fails to teach of turning off an LCD power by controlling a general purpose input/output (GPIO) port of a mobile station modem (MSM) and cutting off the power to the LCD.

Backstrom further discloses in column 5 lines 35-53 of an ANSI-41 SMS deactivation, which reads on claimed "turning off", message being communicated to a remote mobile radiotelephone. The Applicant's usage of the claimed language "a general purpose input/output (GPIO) port of a mobile station modem (MSM)", is being interpreted based on the Backstrom's deactivation step, which constitutes the same claimed functionality. Backstrom continues to disclose of converting the data variable of a memory by interpreting the incoming messages that are used to instruct the phone to perform certain functions accordingly. The Examiner has interpreted this language thusly.

Therefore at the time of the invention it would have been obvious to a person of ordinary skilled in the art to modify Helle (U.S. Patent Number 6,662,023 B1) to include Backstrom (U.S. Patent Number 6,289,214 B1) in order to disclose a feature that determines the said keyword contained in a said control message which instructs the said mobile terminal to deactivate after the transmitted said keyword is authenticated.

Regarding *claim 9*, as the above combination of Helle (U.S. Patent Number 6,662,023 B1) and

Art Unit: 2686

Backstrom (U.S. Patent Number 6,289,214 B1) are made, the combination according to *claim 8*, Helle discloses in columns 5 and 6 lines 65-67 lines 1-5, wherein the said control message, which reads on claimed "SMS message", includes a header and a keyword, which reads on claimed "ciphered string".

Regarding *claim 10*, as the above combination of Helle (U.S. Patent Number 6,662,023 B1) and Backstrom (U.S. Patent Number 6,289,214 B1) are made, the combination according to *claim 8*, Helle discloses in columns 5 and 6 lines 37-44 lines 65-67 lines 1-5 lines 38-42, respectively:

- checking whether a said keyword exists in the SMS message;
- discriminating a type of the ciphered string contained in the SMS message; and

However, Helle does not teach of disabling or turning off an LCD power by the lost terminal.

Backstrom further discloses in column 5 lines 35-53 of an ANSI-41 SMS deactivation, which reads on claimed "turning off", message being communicated to a remote mobile radiotelephone.

Therefore at the time of the invention it would have been obvious to a person of ordinary skilled in the art to modify Helle (U.S. Patent Number 6,662,023 B1) to include Backstrom (U.S. Patent Number 6,289,214 B1) in order to disclose a feature that determines the said keyword contained in a said control message which instructs the said mobile terminal to deactivate after the transmitted said keyword is authenticated.

Regarding *claim 11*, as the above combination of Helle (U.S. Patent Number 6,662,023 B1) and Backstrom (U.S. Patent Number 6,289,214 B1) are made, Helle further teaches in columns 5 and

6 lines 37-44 lines 65-67 lines 1-5 lines 38-42, respectively, wherein the phone-locking state setting step comprises:

- checking whether a said keyword is contained in the SMS message; discriminating a type of the ciphered string; and
- enabling a parameter (see Helle column 6 lines 5-7), which reads on claimed "variable value", for the phone-locking; and
- setting the phone-locking state on the basis of the keyword and the security code, which reads on claimed "lock code" and displaying a phone-locking state on an LCD screen.

Regarding *claim 13*, as the above combination of Helle (U.S. Patent Number 6,662,023 B1) and Backstrom (U.S. Patent Number 6,289,214 B1) are made, the combination according to claim 10, Helle further teaches in column 4 lines 51-65 wherein a message is sent to the said mobile device requesting information regarding the location of the said mobile device, which contrast disabling or locking the said mobile device.

2. *Claims 14-16 and 19-24* are rejected under 35 U.S.C. 103(a) as being unpatentable over Helle (U.S. Patent Number 6,662,023 B1) in view of Backstrom (U.S. Patent Number 6,289,214 B1) and in further view of Krishnamurthi et al (U.S. Patent Number 6,198,929 B1).

Regarding *claims 14 and 19*, Helle discloses a method for preventing an illegal use of a mobile communication terminal comprising the steps of as taught in columns 5 and 6 lines 37-44 lines 65-67 lines 1-5 lines 38-42, respectively:

- checking whether a said keyword exists in the SMS message;
- discriminating a type of the ciphered string contained in the SMS message.

The Applicant's usage of the claimed language "ciphered string," is interpreted by the Examiner as merely an instruction written within the command string of an SMS message directing the said mobile terminal to lock or disable. Therefore, Helle continues to disclose in column 4 lines 51-65 wherein a message is sent to the said mobile device requesting information regarding the location of the said mobile device, which contrast disabling or locking the said mobile device; and

However, Helle does not teach of disabling or turning off an LCD power by the lost terminal.

Backstrom further discloses in column 5 lines 35-53 of an ANSI-41 SMS deactivation, which reads on claimed "turning off", message being communicated to a remote mobile radiotelephone.

Therefore at the time of the invention it would have been obvious to a person of ordinary skilled in the art to modify Helle (U.S. Patent Number 6,662,023 B1) to include Backstrom (U.S. Patent Number 6,289,214 B1) in order to disclose a feature that determines the said keyword contained in a said control message which instructs the said mobile terminal to deactivate after the transmitted said keyword is authenticated.

However the combination of Helle (U.S. Patent Number 6,662,023 B1) in view of Backstrom (U.S. Patent Number 6,289,214 B1) do not disclose where the said mobile terminal is receiving the said control message from a base station.

Krishnamurthi et al teaches in column 2 lines 19-24, where the SMS message is transmitted via a base station to a terminal.

Therefore at the time of the invention it would have been obvious to a person of ordinary skilled in the art to modify the combination of Helle (U.S. Patent Number 6,662,023 B1) and Backstrom (U.S. Patent Number 6,289,214 B1) to further include Krishnamurthi et al (U.S. Patent Number 6,198,929 B1) in order to transmit the said SMS or as referenced above, the said control message, to the said mobile terminal the instruction to prevent illegal usage of the device.

Regarding *claims 15 and 20*, as the above combination of Helle (U.S. Patent Number 6,662,023 B1), Backstrom (U.S. Patent Number 6,289,214 B1) and Krishnamurthi et al (U.S. Patent Number 6,198,929 B1) are made, the combination according to *claims 14 and 19*, Helle discloses in columns 5 and 6 lines 65-67 lines 1-5, wherein the said control message, which reads on claimed "SMS message" includes a header and a keyword, which reads on claimed "ciphered string".

Regarding *claim 16*, as the above combination of Helle (U.S. Patent Number 6,662,023 B1), Backstrom (U.S. Patent Number 6,289,214 B1) and Krishnamurthi et al (U.S. Patent Number 6,198,929 B1) are made, the combination according to *claim 14*, Helle further discloses in columns 5 and 6 lines 37-44 lines 65-67 lines 38-42, respectively, wherein the phone-locking state setting step comprises:

- reading and matching a security code, which reads on claimed "a lock code", from a memory;
- enabling a parameter (see column 6 lines 5-7), which reads on claimed "variable value", for the phone-locking; and

- setting the phone-locking state on the basis of the keyword and the security code, which reads on claimed "lock code" and displaying a phone-locking state on an LCD screen.

Regarding *claim 17*, as the above combination of Helle (U.S. Patent Number 6,662,023 B1), Backstrom (U.S. Patent Number 6,289,214 B1) and Krishnamurthi et al (U.S. Patent Number 6,198,929 B1) are made, the combination according to *claim 14*, Backstrom further discloses in column 5 lines 35-53 of an ANSI-41 SMS deactivation, which reads on claimed "turning off", message being communicated to a remote mobile radiotelephone. The Applicant's usage of the claimed language "a general purpose input/output (GPIO) port of a mobile station modem (MSM)", is being interpreted based on the Backstrom's deactivation step, which constitutes the same claimed functionality. Backstrom continues to disclose of converting the data variable of a memory by interpreting the incoming messages that are used to instruct the phone to perform certain functions accordingly. The Examiner has interpreted this language thusly.

Therefore at the time of the invention it would have been obvious to a person of ordinary skilled in the art to modify the combination of Helle (U.S. Patent Number 6,662,023 B1) and Backstrom (U.S. Patent Number 6,289,214 B1) to further include Krishnamurthi et al (U.S. Patent Number 6,198,929 B1)) in order to include a said keyword that instructs the said mobile terminal to be turned off to prevent illegal usage of the device.

Regarding *claims 21-25*, as the above combination of Helle (U.S. Patent Number 6,662,023 B1), Backstrom (U.S. Patent Number 6,289,214 B1) and Krishnamurthi et al (U.S. Patent Number 6,198,929 B1) are made, the combination according to *claim 19*, Backstrom further teaches in

column 5 lines 35-53 of an ANSI-41 SMS deactivation, which reads on claimed "turning off", message being communicated to a remote mobile radiotelephone.

The Applicant's usage of the claimed language "a general purpose input/output (GPIO) port of a mobile station modem (MSM)", is being interpreted based on the Backstrom's deactivation step, which constitutes the same claimed functionality.

Therefore at the time of the invention it would have been obvious to a person of ordinary skilled in the art to modify Helle (U.S. Patent Number 6,662,023 B1) to include Backstrom (U.S. Patent Number 6,289,214 B1) in order to disclose a feature that determines the said keyword contained in a said control message which instructs the said mobile terminal to deactivate after the transmitted said keyword is authenticated.

Allowable Subject Matter

Claim 17 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments with respect to ***claim 1-21 and new claims 22-25*** have been considered but are moot in view of the new ground(s) of rejection.

Regarding ***claim 12***, after further consideration of the claimed language, the Examiner has concluded to withdraw the previous objection in view of the Examiner's

interpretation as cited in the above rejection. However, **claim 17**, continues to stand objected based on the claimed language.

Regarding **claims 1, 8, 14 and 19**, based on the above rejection and the Examiner's new consideration of the claimed language, the claims stand rejected.

Therefore, based on the information presented in the Examiner's remarks, as well as, in the above office action, **claims 1-16 and 18-22** stand rejected.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Randy Peaches whose telephone number is (571) 272-7914. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D. Banks-Harold can be reached on (571) 272-7905. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2686

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Randy Peaches
November 10, 2005

Marsha D Banks-Harold
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